Title (en)
ENCODING AND DECODING DEVICE AND ENCODING METHOD AND DECODING METHOD

Title (de)
KODIERUNGS- UND DEKODIERUNGSEINRICHTUNG UND KODIERUNGSVERFAHREN UND DEKODIERUNGSVERFAHREN

Title (fr)
DISPOSITIF DE CODAGE ET DE DÉCODAGE, PROCÉDÉ DE CODAGE ET PROCÉDÉ DE DÉCODAGE

Publication
EP 2051499 A4 20120919 (EN)

Application
EP 07790733 A 20070713

Priority
- JP 2007063952 W 20070713
- JP 2006192494 A 20060713

Abstract (en)
[origin: EP2051499A1] [PROBLEMS] To provide an encoding device capable of achieving a sufficient compression ratio even when using a prefix code such as a Huffman code as the entropy encoding method in the wavelet conversion encoding. [MEANS FOR SOLVING PROBLEMS] All the components of LH, HL, HH sub-band coefficients of the same hierarchy and the same space coordinate are extracted as a set from a wavelet sub-band space. Furthermore, it is judged whether each component of each coefficient is zero and as 1-bit judgment result, the respective judgment results are combined to obtain multibit flag information. Upon encoding, firstly, the Huffman information is subjected to variable-length encoding by the Huffman encoding code. After this, only the coefficient values which are not zero are similarly subjected to the variable-length encoding by the Huffman code or the like and outputted.

IPC 8 full level
H04N 1/41 (2006.01); G06T 9/00 (2006.01); H03M 7/30 (2006.01); H04N 19/194 (2014.01); H04N 19/60 (2014.01); H04N 19/63 (2014.01); H04N 19/91 (2014.01)

CPC (source: EP US)
G06T 9/007 (2013.01 - EP US); H04N 19/13 (2014.11 - EP US); H04N 19/18 (2014.11 - EP US); H04N 19/186 (2014.11 - EP US); H04N 19/423 (2014.11 - EP US); H04N 19/46 (2014.11 - EP US); H04N 19/63 (2014.11 - EP US); H04N 19/93 (2014.11 - EP US)

Citation (search report)
- [A] US 2004165780 A1 20040826 - MAKI TAKASHI [JP], et al
- [A] JIANHUA WU ET AL: "Embedded zerotree runlength wavelet image coding", PROCEEDINGS 2001 INTERNATIONAL CONFERENCE ON IMAGE PROCESSING. ICIP 2001 - THESSALONIKI, GREECE, OCT. 7 - 10, 2001; [INTERNATIONAL CONFERENCE ON IMAGE PROCESSING], INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, NEW YORK, NY, vol. 3, 7 October 2001 (2001-10-07), pages 784 - 787, XP010563467, ISBN: 978-0-7803-6725-8, DOI: 10.1109/ICIP.2001.958237
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- [A] KARLSSON G ET AL: "SUBBAND CODING OF VIDEO FOR PACKET NETWORKS", OPTICAL ENGINEERING, SOC. OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS, BELLINGHAM, vol. 27, no. 7, 1 July 1988 (1988-07-01), pages 574 - 586, XP000069873, ISSN: 0091-3286
- See also references of WO 2008007760A1

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CN102255617A

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 2051499 A1 20090422; EP 2051499 A4 20120919; EP 2051499 B1 20150909; CN 101491076 A 20090722; CN 101491076 B 20110504; EP 2942935 A1 20151111; JP 4424522 B2 20100303; JP WO2008007760 A1 20091210; US 2009324116 A1 20091231; US 8463061 B2 20130611; WO 2008007760 A1 20080117

DOCDB simple family (application)
EP 07790733 A 20070713; CN 200780026655 A 20070713; EP 15168306 A 20070713; JP 2007063952 W 20070713; JP 2008524848 A 20070713; US 30922707 A 20070713